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GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: November 19, 1999, 23:20:33; Search time 29.19 Seconds (without alignments) 6455.963 Million cell updates/sec

Perfect score: US-08-913-430-1 1782

Sequence: 1 atgaaaaaatgccactata.....ttgataatcctgatgcctaa 1782

Scoring table: IDENTITY\_NUC

Searched: 195662 seqs, 52875861 residues

Database :

Issued Patents NA:\*

1: /cgn2 6/ptodata/1/ina/5A\_COMB.seq:\*

2: /cgn2 6/ptodata/1/ina/5B\_COMB.seq:\*

3: /cgn2 6/ptodata/1/ina/5C\_COMB.seq:\*

4: /cgn2 6/ptodata/1/ina/D\_COMB.seq:\*

5: /cgn2\_6/ptodata/1/ina/DcTUS9\_COMB.seq:\*

6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

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3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3,5	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.8	3.9	4.0	4.1	4.2	4.2	4.3	4.3	4.3	Match Length	Query
660	660	4098	1939	1511	1511	240	1511	1395	8457	1395	6768	1395	8457	5852	6243	660	660	660	731	1939	731	6243	8920	5852	1511	1511	1511		
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US-08-062-632-4	US-08-764-100-20	US-08-764-100-14	US-08-544-332-1	US-08-107-755A-1	US-07-991-867B-1	US-08-645-193B-18	US-08-466-961A-16	US-08-392-625-16	US-07-593-657-6	US-08-319-704-5	US-09-014-969-14	US-07-872-678A-36	US-07-867-106-4	US-07-781-355-1	US-08-446-855A-1	US-08-544-332-32	us-68-913-430-1 mi
Séquence 4, Appli	Sequence 20, Appl	14,	Sequence 1, Appli	Sequence 1, Appli	Sequence 1, Appli	Sequence 18, Appl	Sequence 16, Appl	Sequence 16, Appl	Sequence 6, Appli	Sequence 5, Appli	Sequence 14, Appl	Sequence 36, Appl	Sequence 4, Appli	Sequence 1, Appli	Sequence 1, Appli	Sequence 32, Appl	

## ALIGNMENTS

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STREET: 2421 N.W. 41st Street, Suite A-1 CITY: Gainesville STATE: FL COUNTRY: USA ZIP: 32606 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PATENTIN Release \$1.0, Version \$1.25 CURRENT APPLICATION NUMBER: US/07/91, 867B FILING DATE: 12-DEC-1992 CLASSIFICATION NUMBER: WS 92/14818 FILING DATE: 12-FEB-1992 PRIOR APPLICATION NUMBER: US 07/827, 685 FILING DATE: 12-FEB-1992 PRIOR APPLICATION NUMBER: US 07/857, 584 FILING DATE: 19-FEB-1991 APPLICATION NUMBER: US 07/657, 584 FILING DATE: 19-FEB-1991 APPLICATION NUMBER: US 1/857, 584 FILING DATE: Saliwanchik, David R. REGISTRATION NUMBER: UF114.C3 TELECOMMUNICATION INFORMATION: TELEPHONE: 904-375-8100 TELEFAX: 904-375-8100	RESULT 1  US-07-991-867B-8/c ; Sequence 8, Application US/07991867B ; Patent No. 5476781 ; GENERAL INFORMATION: APPLICANT: Moyer, Richard W. APPLICANT: Hall, Richard L. APPLICANT: Gruidl, Michael E. ; TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System; NUMBER OF SEQUENCES: 66 ; CORRESPONDENCE ADDRESS: ; ADDRESSEE: David R. Saliwanchik

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679 gtaagtaatgattotattogaatagcactaacogatooggataatoctogatgaattagt

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713 AGATATATTTATCTAATCAAAAATGTGTAATTATAACTCATAATATAGATAATAGATTT 654

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Best Local Similarity 49.8%;
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ORIGINAL SOURCE:
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                                                                                                                                                                                                                                                                                                                                                                                                                  1068 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 1009
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LENGTH: 1511 base pairs
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773
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                                                                                                 agctatttatgcaəcttcgcttgcatcaattattgcatttgttgcagcaggttgtggaca 620
                                                                                                                                                                                                 acttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaaaattcttgtattcatc 560
                                 gacagaatca--ggttcaacttctgattctaaaccacaagccgagacgctaaaacataaa 678
                                                                                                                                                                                                                                            GAATTAATAGTTCCTATGTTTTCTGGCAAAACAACAGAATTGATGCGAAAAATTAAT 714
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Pred. No. 9.5e-06;
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                                                                                                                                                                                                                                                                                           NFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/657,584
FILING DATE: 19-FEB-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5721352el Entomopoxvirus Expression System
                                                                                                                                                                                                                                                                                                                                                                                                                     ATTORNEY/AGENT INFORMATION:
NAME: Saliwanchik, David R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CORRESPONDENCE ADDRESS:
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                                           FEATURE:
                                                                                                   FEATURE:
                                                                                                                                              ORIGINAL SOURCE:
                                                                                                                                                                  MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                      SEQUENCE CHARACTERISTICS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICATION NUMBER: US 07/827, 658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLASSIFICATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release #1.0,
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                     NAME/KEY:
                                                                                NAME/KEY:
                                                                                                                         ORGANISM:
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                                                                                                                                                                                                           STRANDEDNESS:
                                                                                                                                                                                                                         TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                               REFERENCE/DOCKET NUMBER: UF114.C2
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STREET: 2421 N.W. 41st Street, Suite A-1
 LOCATION:
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                                                          complement (18..218)
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Best Local Similarity 49.8%;
Matches 341; Conservative
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                          739 gcccaaaaagatattattcttatg 763
                                                                                                    713
                                                                                                                               679 gtaagtaatgattctattcgaatagcactaaccgatccggataatcctcgatgaattagt 738
                                                                                                                                                                                                                                    621 gacagaatca--ggttcaacttctgattctaaaccacaagccgagacgctaaaacataaa 678
                                                                                                                                                                                                                                                                                                             561 agctatttatgcaacttcgcttgcatcaattattgcatttgttgcagcaggttgtggaca 620
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653 ATAAATAAAAATATAATAAATCATG 629
                                                                                                                                                                                                         773 GAATTAATAATTGGTCCTATGTTTTCTGGCAAAACAACAGAATTGATGCGAAAAATTAAT 714
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                                                                                                  AGATATATTTATCTAATCAAAAATGTGTAATTATAACTCATAATATAGATAATAGATTT
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852..1511
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b; Pred. No. 9.5e-06;
0; Mismatches 326;
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US-08-544-332-8/c

Sequence 8, Application US/08544332 Patent No. 5935777

GENERAL INFORMATION:

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; FEATURE:
; NAME/KEY:
; LOCATION:
US-08-544-332-8
                                                                                                                                                                                                                                                                                                                                                INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SOFTWARE: PatentIn Release $1.0, Version $1.25 CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/544,332
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: No. 59357770l Entomopoxvirus Expression System NUMBER OF SEQUENCES: 77
                                                                                                                  FEATURE:
                                                                                                                                                                                                         MOLECULE TYPE:
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/991,867
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM:
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                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
TELEPHONE: 904-375-8100
TELEFAX: 904-372-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STREET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 12-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILING DATE: 07-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZIP: 32606
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STATE: FL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADDRESSEE: Gerard H. Bencen
                                                                                              NAME/KEY:
                                                                                                                                                                                           ORGANISM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 19-FEB-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER: WO 92/14818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 19-AUG-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: US 08/107,755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDIUM TYPE:
                                                                                                                                                        NAME/KEY:
                                                                                                                                                                                                                                                   TOPOLOGY:
                                                                                                                                                                                                                                                                     STRANDEDNESS:
                                                                                                                                                                                                                                                                                        TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 35,746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NAME: Bencen, Gerard H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: US 07/657,584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICATION NUMBER: US 07/827,685
                                                                          LOCATION:
                                                                                                                                  LOCATION:
                                                                                                                                                                                                                                                                                                          ENGTH:
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                                                                                                                                                                                                                                                                                                          1511 base pairs
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                    CDS
852..1511
                                                                                                                                                                                                                                                   unknown
                                                                          complement (234..782)
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                                                                                                                                                                                                                                                                       double
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Best Local Similarity 49.8%; Matches 341; Conservative

0; Mismatches 326;

Indels 18;

Gaps

5,

Score 77.4; DB 4; Length 1511; Pred. No. 9.5e-06;

Query Match

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                                                                                                                                       Sequence 2, Application US/07867106 Patent No. 5389526
                                                                                                                     GENERAL INFORMATION:
APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L
TITLE OF INVENTION: Improved Plasmid Vectors for Cellular
TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
NUMBER OF SEQUENCES: 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1128 TTTTGTTATAAGATATATCTAAATATGTTATATTTTTAATTTTGTTATAAAATTTAAAT 1069
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350 tttagtctagattatagaattatcttgaattttatttgaatttttataatttagtactaa 409	4.2%; Score 75; DB 1; Length cal Similarity 50.4%; Pred. No. 2.7e-05; 183; Conservative 0; Mismatches 180; Inc	: NO : CDS : 23785 : 23785	FOR SEQ II CHARACTERIS 5852 base 5852 base NUCLEIC ACI NUCLES: sir	AGENT INFORMATION reeney, Joanne Lo ATION NUMBER: 35 EZ-DOCKET NUMBER: TICATION INFORMAT VE: 215-568-3100 1215-568-3439	APPLICATION NUMBER: US/07/867,106 FILING DATE: 19920625 FIOR APPLICATION DATA: APPLICATION NUMBER: AU PJ 7187 APPLICATION NUMBER: PCT/AU90/00530 FILING DATE: 02-NOV-1989	COUNTRY: USA ZIP: 19103 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: 1BM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTMARE: Patentin Release #1.0, Version #1.25	STREET: One Liberty Place 46th Floor CITY: Philadelphia STATE: PA	
		4.2%; Score 75; DB 1; Length 5852; cal Similarity 50.4%; Pred. No. 2.7e-05; 183; Conservative 0; Mismatches 180; Indels 0; G tattitttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcggt	CDLE TYPE: DNA (genomic) -SENSE: NO -SENSE: NO -SENSE: NO -SENSE: NO -SENSE: CDS -SENSE: C	ATION FOR SEQ ID NO: 2: ENCE CHARACTERISTICS: SOCIETY SESS base pairs PE: NUCLEIC ACID RANDEDNESS: single POLOGY: linear POLOGY: linear POLOGY: Linear CULE TYPE: DNA (genomic) -SENSE: NO -SENSE: NO MERE: ME/KEY: CDS ME/KEY: CDS ME/KEY: CDS ME/KEY: CDS CATION: 23785038 -106-2 -106-2 -183; Conservative 0; Mismatches 180; Indels 0; G tattitttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcggt	MEY, AGENT INFORMATION:  ME: Feeney, Joanne Longo SISTRATION NUMBER: 35,134  FERENCE/DOCKET NUMBER: RICE-0002  COMMUNICATION INFORMATION: LEPHONE: 215-568-3100 LEEPHONE: 215-568-3100 LEEPHONE: 215-568-3439  ATION FOR SEQ ID NO: 2: RNCE CHARACTERISTICS: NOTH: 5852 base pairs  PE: NUCLEIC ACID  RANDEDNESS: single  POLOCY: linear  COLLE TYPE: DNA (genomic)  -SENSE: NO  URE: CDS CATION: 23785038  CRION: 23785038  CRION: 23785038  -106-2  183; Conservative 0; Mismatches 180; Indels 0; G  tattitttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcggt	LICATION NUMBER: US/07/867,106 LING DATE: 19920625 A RAPLICATION DATA: PLICATION NUMBER: AU PJ 7187 LICATION NUMBER: PCTAN99/00530 LING DATE: 02-NOV-1989 LING CHARATION NUMBER: RICE-0002 LEPAN: 215-568-3100 LEEPHONE: 215-568-3100 LEEPHONE: 215-568-3439 ATION FOR SEQ ID NO: 2: RECHARACTERISTICS: ROCHE TYPE: DNA (genomic) LEEPHONE: 5852 base pairs PE: NUCLEIC ACID RANDEDNESS: single POLOCY: linear POLOCY: linear POLOCY: linear POLOCY: LINEAR POLOCY: STREET DNA (genomic) URE: PE: NOW (genomic) URE: PE: CDS CATION: 23785038 LEEM LICH 10-12 LEIGH 5852; LEIGH 50.4%; Score 75; DB 1; Length 5852; LECH 50.4%; Pred. No. 2.7e-05; LING LEIGH 5852; LEIGH 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NYTRY: USA 19103 17ER READABLE FORM: 17UR TYPE: Floppy disk #FUTER: IBM PC compatible FEARTING SYSTEM: PC-DOS/MS-DOS 17WARE: Patentin Release #1.0, Version #1.25 17WARE: Patentin Release #1.0, Version #1.25 17WARE: PAtentin Release #1.0, Version #1.25 17WARE: PAtentin Nounder: US/07/867,106 LING DATE: 19920625 18 APPLICATION NUMBER: US/07/867,106 LING DATE: 19920625 18 APPLICATION NUMBER: PCT/AU90/00530 LING DATE: 02-NOV-1989 18 APPLICATION NUMBER: RICE-0002	RET: One Liberty Place 46th Floor TY: Philadelphia TY: PA ATE: PA NTRY: USA P: 19103 P: 19103 P: 19103 P: 19103 P: 19103 P: 19103 P: 19108 PC-DOS/MS-DOS PTARE: Elopy disk PUTER: IBH PC compatible ERATING SYSTEM: PC-DOS/MS-DOS PTARE: Patentin Release #1.0, Version #1.25 NT APPLICATION DATA: PLICATION NUMBER: US/07/867,106 LING DATE: 19920625 RAPPLICATION NUMBER: PCT/AU90/00530 LING DATE: 10-NOV-1989 RNEY/AGENT INFORMATION: REPENDEL/DOCKET NUMBER: RICE-0002 PERENCE/DOCKET NUMBER: RICE-0002 FORENCE/DOCKET NUMBER: RICE-0002 FO

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US-08-446-855A-1

Sequence 1, Application US/08446855A Patent No. 5849573

GENERAL INFORMATION:

APPLICANT:

APPLICANT: APPLICANT:

O'Sullivan, William J

Flores, Maria V Stewart, Thomas S

TITLE OF INVENTION: Nucleotide sequence encoding carbamoyl TITLE OF INVENTION: phosphate synthetase II

CORRESPONDENCE ADDRESS:

ADDRESSEE: Nixon & Vanderhye PC

STREET:

1100 No.

5849573th Glebe Road, 8th Floor

Arlington

NUMBER OF SEQUENCES:

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2037 AAA 2039

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aaa 532

470 tatagtataatttgtttgtataattgaattaacttgatttgaaagggaacaaaatgaaaa 529

1917 AAGTTATTTTTAAATATGCAAAAACTATAAAAAACTAATGTAGTTTAACCAACTTTTTTC 1976

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                                                              Query Match 4.2%;
Best Local Similarity 49.1%;
                                                    Matches 259;
269
           37 tatataaaataattaaaattacattttcttcatttgcgccagaattttttaagaattagta 96
Conservative
                                                  0; Mismatches 261;
                                                               Score 74.4; DB 3;
Pred. No. 3.6e-05;
                                                                           Length 8920;
                                                    Indels
                                                  8
                                                 Gaps
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INFORMATION FOR SEQ ID NO:

TELEFAX: TELEPHONE:

703-816-4100

703-816-4000

SEQUENCE CHARACTERISTICS:

LENGTH: 8920 base pairs

MOLECULE TYPE:

genomic

STRANDEDNESS: single

: 34XI

nucleic acid

TOPOLOGY: linear

ATTORNEY/AGENT INFORMATION:
NAME: Mitchard, Leonard C
REGISTRATION NUMBER: 29.009
REFERENCE/DOCKET NUMBER: 47-

CLASSIFICATION: FILING DATE: 06-Jul-1995

TELECOMMUNICATION INFORMATION:

47-80

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/446,855A SOFTWARE: PatentIn Release #1.24 OPERATING SYSTEM: PC-DOS/MS-DOS COMPUTER READABLE FORM:

22201-4714

COUNTRY: USA STATE: Virginia

MEDIUM TYPE: Floppy disk

COMPUTER:

IBM PC compatible

Ş 맑 Ş Ş 밁 Ş Ş Ş 밁 S 밁 US-09-056-075-1 Sequence 1, Application Patent No. 5955368 GENERAL INFORMATION: COUNTRY: US
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC COMPATIBLE
OPERATING SYSTEM: PC-DOS/MS-DOS APPLICANT: Bradshaw, Mar APPLICANT: Rood, Julian ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386 TITLE OF INVENTION: APPLICANT: CURRENT APPLICATION DATA: CORRESPONDENCE ADDRESS: NUMBER OF SEQUENCES: 444 ACACATTAATATAGTTTTACACTTCTTATAATAAAACCATCCTATATATTATACACAATA 503 514 gggaacaaaatgaaaaaaatgcttagaaaaaaattcttgtattcatca 561 454 aaaaaaaattgatttttatagtataatttgtttgtataattgaattaacttgatttgaaa 513 564 ATTCATTTATTTATTTTTTTTTTTAGTTTATAAAATAGTAATTCTACTAATTTAAAAAAA 623 334 tagtattttttttttttagtctaaattataaaattatcttgaattttatttgaatttt 393 217 ttatcaagtcggtattttttcattatttctactaaaatattatttgaatt---tgcattt 273 324 TATATATATATATATATATATATGTTTGTGTGTTCATTTGTTTATAAAATTACTTGAAAT 383 394 tataatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcattttt 453 384 ATAAAACTTATTAATATATTTCCAATTAATATGAATACAATTATTAATATTTTGATGTGT 157 taaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtat 97 cattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaat STATE: WI CITY: Madison CLASSIFICATION: STREET: REFERENCE/DOCKET NUMBER: FILING DATE: APPLICATION NUMBER: US/09/056,075 SOFTWARE: PatentIn Release #1.0, ADDRESSEE: Quarles & Brady Application US/09056075 1 South Pinckney Street Bradshaw, Marite Johnson, Expression System for Clostridium Species Eric A. 960296.95238 Version #1.30 443 156

TELEPHONE: 608-251-5000

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Best Local Similarity 46.7%;
Matches 266; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1774 GTTTCATTCTTATACTTATATTGCTTATTTTTTATCTAAATAACATCTTTCAGCACTTCTA 1833
                                                                                                                                                                                                                                                                                                                                1654 AATTGCTCTTGATAATTTTTTTTTACCTCTAATATTTTCTCTTCTCTTATATTCCTTTTTA 1713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1478 GCCTTTATAAAAGCCCATTTTTTTCATATACGTAATATGACGTTCTAATGTTTTTATTG 1537
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TOPOLOGY: linear MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
1894 ACATCATTTAATGCCTTCTCAATGTCTTC 1922
                                                                                1834 GTTGCTCTTATAACTTCTCTTTCACTTAAATGTTGTCTAAACATACTATTAAGTTCTAAA 1893
                                                                                                                                                                                                                                                   1714 GAAATTATTATTGTCATATATTTTTGTTCTTCTTCTGTAATTTCTAATAACTCTATAAGA 1773
                                                                                                                                                                                                                                                                                                                                                                                                                    1538 GTACTTCTAACATTAGAGTAATTTCTTTA----TTTTTAAAGCCCTTTTTCTTTAAGGGCT 1593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1418 AAGTTTGAAAAAATTTTTTTATATTATATAATCTTTGAAGAAAAGAATATAAAAAATGA 1477
                     544 aaattottgtattoatoagotatttatgc 572
| || || || || | | || || |
                                                                                                       484 tttgtataattgaattaacttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaa 543
                                                                                                                                                                                           424 ttttcctattctaagaaaaattcattttttaaaaaaaaattgatttttatagtataatttg 483
                                                                                                                                                                                                                                                                       364 taaaattatottgaattttatttgaatttttataatttagtactaaaaaatacaaatatt 423
                                                                                                                                                                                                                                                                                                                                                     244 tctactaaaatattatttgaatttgcattttccataatctaaaattttacatttttttat 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             184 gaaatccaaccaggcataaatctttgtcagtatttatcaagtcggtattttttcattatt 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               OTHER INFORMATION: /note= "RP4 origin of DNA transfer (oriT) from OTHER INFORMATION: plasmid RP4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY: misc feature LOCATION: 3770..4013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 64 cttcatttgcgccagaatttttaagaattagtacattaaaaagtagaacaaaagttatta 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 STRANDEDNESS: double
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Qy 348 ttittagtctaaattataaaaattatcttgaattittatatttgaatttitatagtact	Qy 288 tittacatitittitataacaatitittaaaaaattactctittaattitatagtatitittitat	228 gtatttttcattatttc	Qy 168 tctattttttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcg 	Qy 108 agaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaattaaaagttta 	Qy 48 attaaaattacatttcttcatttgcgccagaatttttaagaattagtacattaaaaagt	Query Match Best Local Similarity 50.3%; Pred. No. 0.0 Matches 228; Conservative 0; Mismatches	25 G E	; TYPE: NUCLEIC ACID	••	1–1993 10: 2:	PRIOR APPLICATION DATA: APPLICATION NUMBER: 07/965,273	FILING DATE: 26-MAY-1995 CLASSIFICATION: 435	LICATION DATA	 <pre> ; MEDIUM TYPE: 3.5" FLOPPY DISK  ; COMPUTER: Midwest Micro 486-50 </pre>	; ZIP: 15219-1818 ; COMPUTER READABLE FORM:	STATE: PENNSYLVANIA COUNTRY: UNITED STATES OF AMERICA	ONDERVE ADDRESS: SSEE: THE WEBB LAW FIRM TO KOPPERS BUILDING, 436	NUMBER OF SEQUENCES: 3	D, CHRIS	APPLICANT: FASEL, NICOLAS JOSEPH	; Sequence 2, Application US/08451405A : Patent No. 5736358	7-WCNF-TCF-8N-CN
tttatttgaattttataatttagtact 407                       ATTATTTATTTATTATATATCAAT 564	tactctttaatttatagtattttttat 347                           AATTTTTAATTTTTTTTTT	tactaaaatattatttgaatttgcattttccataatctaaaa 287 	Laaatetttgteagtatttateaagteg 227 	aatccttaagaaaaattaaaagtttta 167                    AAAAAAAAAAAAATTAAAATCAAAA 328	atttttaagaattagtacattaaaaagt 107                 	; DB 2; Length 731; . 0.00011; tches 220; Indels 5; Gaps											SEVENTH AVENUE		IQUE RESSION VECTOR AND SSING A DESIRED PROTEIN			

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TICATION DATA: LICATION DATA: ON NUMBER: US TE: 26-MAY-1S ATION: 435 CATION DATA:	
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PITTSBURGH	
ADDRESSEE: THE WEBB LAW FIRM STREET: 700 KOPPERS BUILDING, 436 SEVENTH AVENUE	
NUMBER OF SEQUENCES: 3 CORRESPONDENCE ADDRESS:	·· ··
'e -	<b></b>
ANT: REYMOND, CHRISTOPHE DOMINIQUE	٠
GENERAL INFORMATION:	
US-08-451-405A-2/c ; Sequence 2, Application US/08451405A ; Patent No. 5736358	. ; SD
RESULT	RE
GATA	DЬ
588 aattattgcatt 599	Qy
1406 AATATAGTTTTACCAAAAAAAAAATATTAATTAAGTGAAGTATCCTACCAACCA	DЬ
528 aaaaatgcttagaaaaaaattcttgtattcatcagctatttatgcaacttcgcttgcatc 587	Qy
1346 TACATAGAACTITACAAATGCTAAATAAAATTATTTTGAATCAAAATATAAAATAAAT	DЬ
468 tttatagtataatttgtttgtataattgaattaacttgatttgaaagggaacaa	Qy
1286 TAATAAAATATTATTTTAAAATAGTATACTTTAATTTGAATTAATATTTAAAGTTGTAT 1345	рр
408 aaaaaatacaaatattttttcctattctaagaaaaattcattttttaaaaaaaa	Qy
1232 TGTGAAATTTTGATTATTAGATACTAAAGAGTGAAATTTTAATTATTAGATATT 1285	DЬ
aattatcttgaattttattt	Qy
1172 ACTITAATIGCTTTATTAAGTCAICTATAATAGGAAATTCAATAATAACAAGTTTGAAT 1231	B
tttttataacaatttttaaaaattactctttaatttattgtatttttt	Qy
1112 TTAACTTTAAATACTAATTCATATAATAATAAAAACTAACTATAAGAATACTAACAATAA 1171	DЬ
tittittcattattictactaaaatattattigaattigcattiticcataatctaa	Qy
1052 TTTCAATTAAATTCTTT	Db
175 tttttaatcgaaatccaaccaggcataaatctttgtcagtatttatcaagtcg 227	Qy
992	망
115 aagttattaatgtaaacattagcgcaatccttaagaaa	Qy

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                                                                                                                                                               Sequence 32, Application US/07991867B Patent No. 5476781
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                                                        APPLICANT: Moyer, Richard W.
APPLICANT: Hall, Richard L.
APPLICANT: Gruidl, Michael E.
TITLE OF INVENTION: No. 5476781el Entomopoxvirus Expression System
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
                     CORRESPONDENCE ADDRESS:
                                          NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                517
                                                                                                                                                                                                                                                                                                                                                                                                                457
                                                                                                                                                                                                                                                                                                                                                                                                                                                         216 CTTATCATATACCGTCACAAATCTATTTTTAGGTTCACTATGTTTAATATAAATTTTAAAT 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           397 aatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcattttttaaa 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        337 tatttttttatttttagtctaaattataaaattatcttgaattttatttgaattttat 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              217 ttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcattttcc 276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             446 AAATAAAAAATTAAAATTTAAAACCTTTGTAAGATAATAGAGTGTGTTAAAAGTGTGT 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  157 taaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtat 216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             566 TAATTGATATATAAAATAAATAAATAATAATGTTATTTGTTTGATTAAAGGGGGTTGA 507
                                                                                                                                                                                                                                                                                                                                                                       156 ACAAATAAAAACTCCTTCAAATAGAAATAT-TTTATTCTAATTTTTTATTTTTAAAAAAA 98
                                                                                                                                                                                                                                                                                         97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE:
ADDRESSEE: David R. Saliwanchik
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                                                                                                                                                                                                                                                                                                                          aacaaaatgaaaaaatgcttagaaaaaaattcttgtattcatcagctatt 567
                                                                                                                                                                                                                                                                                                                                                                                                            aaaaattgatttttatagtataatttgtttgtataattgaattaacttgatttgaaaggg 516
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaaaaat 156
                                                                                                                                                                                                                                                                                       TAAAAATAAAAATAAAAAAAAAGGAAAAAAAAAACATATACTAATCAAATATT 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   731
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Pred. No. 0.00033;
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Best Local Similarity 51.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATTORNEY/AGENT INFORMATION:
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MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELECOMMUNICATION INFORMATION
                                                                                                                                                                                                                                             212 agtatttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcat 271
217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 158
                                               331 ttatagtatttttttttttttagtctaaattataaaattatcttgaattttatttgaat 390
                                                                                                                                                                                                     337 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 278
                                                                                                                                                                                                                                                                                                    397 ATATTATTAATTTTTTAAATTTACTAAATTATTAATAAAATTATAGTCATTTATATTAC
                                                                                                                                                                                                                                                                                                                                                                                                        272 tttccataatctaaaattttacattttt-tataacaatttttaaaaattactctttaat 330
                                                                                                                                                                                                                                                                                                                                                    152 aaaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtc 211
                                                                                                                                                                                                                                                                                                                                                                                                                                                   92 tagtacattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaa 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 30-JAN-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SOFTWARE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME: Saliwanchik, David R.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FILING DATE: 12-FEB-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: WO 92/14818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CLASSIFICATION: 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILING DATE: 12-DEC-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICATION NUMBER: US/07/991,867B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CITY: Gainesville
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TELEFAX: 904-372-5800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STREET:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: US 07/657,584
                                                                                                   TTTTGTTATAAGATATATCTAAATATGTTATATTTTTAATTTTGTTATAAATTTAAAT 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            205;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 66; DB 1; Length 660; Pred. No. 0.00076;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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US-08-107-755A-32/c

Sequence 32, Application US/08107755A Patent No. 5721352

GENERAL INFORMATION:

APPLICANT:

Moyer, Richard W. Hall, Richard L.

APPLICANT: Hall, Kicharu L.
APPLICANT: Gruidl, Michael E.
The of INVENTION: No. 5721352el Entomopoxvirus Expression System

CORRESPONDENCE ADDRESS:
ADDRESSEE: David R. Saliwanchik
STREET: 2421 N.W. 41st Street, Suite A-1

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97

447 attttttaaaaaaaattgatttttatagtataatttgttt 486

TAATATTAATAACATTATCTCTGTTTATTATTATTTTTTT 58

391 ttttataatttagtactaaaaaatacaaatatt----ttttcctattctaagaaaaaattc 446 

NFORMATION FOR SEQ ID NO:

32:

TELEFAX:

(904) 372-5800

TELECOMMUNICATION INFORMATION:

TELEPHONE: (904) 375-8100

REGISTRATION NUMBER: 31,794
REFERENCE/DOCKET NUMBER: UF114.C2

PRIOR APPLICATION DATA:

CLASSIFICATION:

435

FILING DATE: 19-FEB-1991 ATTORNEY/AGENT INFORMATION:

NAME: Saliwanchik, David R.

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

US 07/657,584

FILING DATE: 30-JAN-1992

APPLICATION NUMBER: US 07/827,658

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/107,755A FILING DATE: 19-AUG-1993

COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0,

Version #1

. 25

COMPUTER READABLE FORM:

MEDIUM TYPE:

Floppy disk

STATE: Florida

Gainesville

COUNTRY: U.S.A.

32606

SEQUENCE CHARACTERISTICS: LENGTH: 660 base pairs

nucleic acid

TOPOLOGY: unknown STRANDEDNESS: double

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Q 밁 Ş 밁 Q В Ş Ş 밁 Ş В 밁 US-08-544-332-32/c Sequence 32, Application US/08544332 Patent No. 5935777 GENERAL INFORMATION: TITLE OF INVENTION: No. 5935777el Entomopoxvirus Expression System NUMBER OF SEQUENCES: 77 PRIOR APPLICATION DATA: PRIOR APPLICATION DATA: CURRENT APPLICATION DATA:
APPLICATION NUMBER: US. COMPUTER READABLE FORM: CORRESPONDENCE ADDRESS: APPLICANT: Hall, Richard L. APPLICANT: Moyer, Richard W. PRIOR APPLICATION DATA: PRIOR APPLICATION DATA: APPLICANT: Gruidl, Michael E. 447 attttttaaaaaaaattgatttttatagtataatttgttt 486 217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTTAAAA 158 277 TTTTGTTATAAGATATATCTAAATATGTTATATTTTTAATTTTGTTATAAAATTTAAAT 218 212 agtatttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcat 271 157 TATTATTATCATAATATATATATGCAATTCTTCTAAATTAACTAATTTTTTTAATATAT 98 391 ttttataatttagtactaaaaaatacaaatatt----ttttcctattctaagaaaaattc 446 331 ttatagtatttttttatttttagtctaaattataaaattatcttgaattttatttgaat 390 272 tttccataatctaaaattttacatttttt-tataacaatttttaaaaaattactctttaat 330 337 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 278 397 ATATTATTAATTTTTTAAATTTACTAAATTATTAATAAAATTATAGTCATTTATATTAC 338 152 aaaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtc 211 APPLICATION NUMBER: WO 9: FILING DATE: 12-FEB-1992 COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS ZIP: STREET: 97 TAATATTAATAACATTATCTCTGTTTATTATTATTTTTT 58 FILING DATE: 07-DEC-1992 CLASSIFICATION: FILING DATE: SOFTWARE: PatentIn Release #1.0, COUNTRY: STATE: FL CITY: Gainesville ADDRESSEE: Gerard H. Bencen Suite A-1 FILING DATE: 19-AUG-1993 APPLICATION NUMBER: US 07/991,867 MEDIUM TYPE: Floppy disk APPLICATION NUMBER: APPLICATION NUMBER: US 08/107,755 32606 USA WO 92/14818 US/08/544, 332 US 07/827, 685 Version #1.

9 23 14:57 us-08-913-430-1 mi

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FILING DATE:

30-JAN-1992

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US-09-056-075-1/c.
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                                                                                                                             Sequence 1, Application US/09056075 Patent No. 5955368
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match 3.7%;
Best Local Similarity 51.2%;
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                                                                                                         GENERAL INFORMATION:
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                                         APPLICANT:
  TITLE OF INVENTION:
                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                      157
                                                                                                                                                                                                                                                                                                                                                                                                                                          217 TAATAATATTTAAATTTGAAATATATAAACTTTTAATATTTTCTGGAATATTATTAAAA 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 331 ttatagtatttttttattttttagtctaaattataaaattatcttgaattttatttgaat 390
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     337 ATGATTCACAATTTAAAAATTCTATAGAATGTGGTAGTATAATATTACTTATATTGCTAT 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                212 agtatttatcaagtcggtattttttcattattctactaaaatattatttgaatttgcat 271
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 152 aaaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtc 211
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME: Bencen, Gerard H.
REGISTRATION NUMBER: 35,746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: 904-372-5800
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US 07/657,584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 904-375-8100
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LENGTH: 660 base pairs
                                                                                                                                                                                                                                                                                          atttttaaaaaaaattgatttttatagtataatttgttt 486
                                                                                                                                                                                                                                                               TAATATTAATAACATTATCTCTGTTTATTATTATTTTTTT
                                                                                                                                                                                                                                                                                                                                                    Bradshaw, Marite
Rood, Julian
                                                                                  Johnson, Eric A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 19-FEB-1991
Species
                    Expression System for Clostridium
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Best Local Similarity 49.3%;
Matches 169; Conservative
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                                                                                                                                                                                                                                                                                                                                                                           FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA (genomic)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  COMPUTER READABLE FORM:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TELEPHONE: 608-251-5000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
                                                                                                                                                               273 ttccataatctaaaattttacatttttttataacaatttttaaaaattactctttaattt 332
393 ttataatttagtactaaaaaatacaaatattttttcctattct 435
                                                                           333 atagtatttttttatttttagtctaaattataaaattatcttgaattttatttgaattt 392
                                                                                                                                                                                                                                                                                                                                153 aaattaaaagttttatctattttttttaatcgaaatccaaccaggcataaatctttgtca 212
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NAME/KEY: misc_feature LOCATION: 3770..4013
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                                                                                                                                                                                                                                                                                                                                                                                                                93 agtacattaaaaagtagaacaaaagttattaatgtaaacattagcgcaatccttaagaaa 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OTHER INFORMATION: plasmid RP4"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        OTHER INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: double TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/09/056,075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZIP: 53701-2113
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                STATE: WI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: nucleic aci
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LENGTH: 6243 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEPHONE:
                                                                                                                                                                                                                             gtatttatcaagtcggtattttttcattatttctactaaaatattatttgaatttgcatt 272
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IBM PC compatible
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Pred. No. 0.0016;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 6243;
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                                                                                    Query Match 3.6%;
Best Local Similarity 47.6%;
                                                                                                                                                                                                                                                                                                                                                                                                 TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 5852 base pairs
TYPE: NUCLEIC ACID
                                                                Matches 253; Conservative
                                                                                                                                                                                                                                    NAME/KEY:
LOCATION:
FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA: APPLICATION NUMBER: US/07/867,106 FILING DATE: 19920625 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICATION NUMBER: AU PJ 7187
APPLICATION NUMBER: PCT/AU90/00530
FILING DATE: 02-NOV-1989
ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE OF INVENTION: Improved Plasmid Vectors for Gellular TITLE OF INVENTION: Slime Moulds of the Genus Dictyostelium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: Slade, Martin B
APPLICANT: Chang, Andy C M
APPLICANT: Williams, Keith L
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                      ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                            OLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME: Feeney, Joanne Longo
REGISTRATION NUMBER: 35,134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COUNTRY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STATE: PA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Philadelphia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADDRESSEE: Woodcock Washburn Kurtz Mackiewicz & No. 5389526ris STREET: One Liberty Place 46th Floor
                                                                                                                                                                                          LOCATION:
                                                                                                                                                                                                                NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                               STRANDEDNESS: single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE/DOCKET NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP: 19103
                                                                                                                                                                                                                                                                                                                                                             TOPOLOGY: linear
2 tgaaaaaaatgccactataccagaggaaagagcagtatataaaat-aattaaaattacat 60
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2378..5038
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                                                                0; Mismatches 276;
                                                                                    Score 64.4; DB 1; Length 5852; Pred. No. 0.0017;
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õ	2305	TGGGAAAAATAAAATTAAAAATTAAAAA
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ğ	1887	aaaaaaatttaaaatttaaaaaaaaaaaaaaa
ESULT	LT 15	ESULT 15
Se	Sequence Patent No	Sequence 1, Application US/07991867B Patent No. 5476781
6	ENERA	운:
	APPL	APPLICANT: Moyer, Richard W. APPLICANT: Hall, Richard L.
	APPLIO	CANT: Gruidl, Michae
	NUMBI	ROF SEQUENCES: 66
	ADI	ADDRESSEE: David R. Saliwanchik
	CITY:	Gainesville
	COI 511	= "
	COMPUTI	COMPUTER READABLE FORM:
	8 ₹	MEDIUM TYPE: Floppy disk
	OP.	SYSTEM: PC-DOS/MS-DOS
	CURRI	SOFTWARE: PatentIn Release #1.0, Version #1.25 CURRENT APPLICATION DATA:
	FT AP	APPLICATION NUMBER: US/07/991,867B
	,	SIFICATION
	APPI	JICATION NU
	FI	ILING DATE: 12-FEB-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/657,584

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/827, 685

30-JAN-1992

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US-07-991-867B-1
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Best Local Similarity 48.2%;
Matches 206; Conservative
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MOLECULE TYPE: D
ORIGINAL SOURCE:
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                                  444 ACTTTTTAATACTTTTGAATTACAATATGATAGTCCCGATTGTGGTATGTTTAATATAA 385
                                                               504 ATTTATACATTGATGTACTATCAGAATATTTAAATGATATTTAAAAATGTAAATTATT 445
                                                                                                                       239 ttatttctactaaaatattatttgaatttgcattttccataatctaaaattttacatttt 298
                                                                                                                                                                        563 TGATATGACTATAAAAAGCCATAAA-CACTACAATAGTACTCCTAATACTAATTATGCTT 505
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                                                                                                                                                                                                                                           623 TAGTAGTGGTTATATACCAGAACTTATAAAACAAAATAAAAAATATATGTTTATTGAATC 564
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359 aattataaaattatottgaattttatttgaatttttataatttagtaotaaaaaatacaa 418
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REFERENCE/DOCKET NUMBER: UF114.C3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: nucleic acid
STRANDEDNESS: double
                                                                                                                                                                                                                                                                                                                                                                                                                                      NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 19-FEB-1991
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1474..2151
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3080..6091
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2502..2987
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	us-08-915-430-1.mi
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밁 384 TATTTTATATTATATATATTTTTTCAACATAAAATCTAAATTTGAATTTAAAAAATTAT 325 = = = = = = = - - = = =

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밁 324 ATTATTCTATGAGTTTTATTGGTGATTTATTGGCTAGTAGTTATAGAGGTGCATTATTTA 265

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뭉 264 TTTCTAGATATGATATTAATAGTATTGACGAATTTAAAAATACATTAGAAATATTTAATA 205

539 gaaaaaa 545 ||||||

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204 TAAAAAA 198

Search completed: November 20, 1999, 00:02:31 Job time: 2518 sec

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GenCore version 4.5
Copyright (c) 1993 - 1998 Compugen Ltd.
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Database : Run Searched: Scoring table: Sequence: Perfect score: OM nucleic - nucleic search, using sw model Title: 9: November 19, 1999, 23:06:31; Search time 450.03 Seconds (without alignments) 12182.104 Million cell updates/sec IDENTITY\_NUC 1782 Pending\_Patents\_NA:\* 4116993 seqs, 1538246968 residues US-08-913-430-1 atgaaaaaatgccactata.....ttgataatcctgatgcctaa 1782 /cgn2\_6/ptodata/1/pna/US089B\_COMB.seq:\*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

					SUMMARIES	
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Result		Query				
No.	Score	Match	Match Length DB ID	DB	ID	Description
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2	1245.6	69.9	1260	7	US-08-183-774-2	Sequence 2, Appli
ω	97.4	5.5	448	80	US-60-141-136-611	Sequence 611, App
4	95.4	5.4	17034	80	US-60-144-351-1275	Sequence 1275, Ap
5	93.2	5.2	501	80	0 US-60-141-134-4006	Sequence 4006, Ap
о 6	92.6	5.2	470	81	US-60-145-485-8111	Sequence 8111, Ap
c 7	92.2	5.2	510	80	US-60-144-084-39263	Sequence 39263, A
∞	92	5.2	837	33	US-08-998-416-288	Sequence 288, App
9	91.8	5.2	25821	88	US-60-161-932-409	Sequence 409, App
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	c	12	91.4	5.1	47573	75	US-60-119-494-1		
	C	13	91.4	5.1	961	77	US-60-126-265-3039		
	o	14	90.8	5.1	948	52	US-09-404-520-13069	13069	
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	O	23	88.4	5.0	447	81	US-60-145-485-9030	Sequence 9030, Ap	
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		26	87.4	4.9	400	80	US-60-141-134-1072	Sequence 1072, Ap	
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		<u>კ</u>	86.4	4.	458	80		Sequence 716. App	
		31	86.2	4.8	667	52		1365	
	ი	32	85.4	4.8	433	80	US-60-141-134-3384		
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	a	39	83.8	4.7	805	77	US-60-126-265-127	127	
	o	40	83.4	4.7	1174	52	US-09-404-520-13297		
	G	41	83	4.7	463	81	US-60-145-147-1007	Sequence 1007, Ap	
		42	83	4.7	378	82	US-60-145-485-6622	Sequence 6622, Ap	
	c	43	82.8	4.6	9734	14	US-08-430-908-20	Sequence 20, Appl	
	c	44	82.8	4.6	9741	17	8	43	
	o	45	82.8	4.6	9741	17	US-08-639-368A-43	43,	

## ALIGNMENTS

RESULT

US-08-913-430-1 Sequence 1, Application US/08913430B GENERAL INFORMATION: APPLICANT: Walker, John APPLICANT: Lee, Rogan APPLICANT: Dougherty, Stephen W. TITLE OF INVENTION: Antigen Composition Against Mycoplasma; FILE REFERENCE: U-011415-0 CURRENT APPLICATION UNMBER: US/08/913,430B CURRENT FILING DATE: 1997-12-09 FEARLIER APPLICATION NUMBER: PCT/AU96/00149 FEARLIER FILING DATE: 1996-03-15 FEARLIER APPLICATION NUMBER: PN 1789 FEARLIER FILING DATE: 1995-03-16 NUMBER OF SEQ ID NOS: 18 SOFTWARE: PatentIn Ver. 2.0 - beta SEQ ID NO 1 LENGTH: 1782 TYPE: DNA ORGANISM: Mycoplasma hyopneumoniae US-08-913-430-1	S.		٠-	٠.	٠.	٠.	٠.	٠-	٠-		٠-	٠.	٠.	٠.	٠.	٠.	٠-	٠.	٠.	Sū
-913-430-1 uence 1, Application US/08913430B UENAL INFORMATION: PLICANT: Walker, John PLICANT: Walker, John PLICANT: Dougherty, Stephen W. PLICANT: Dougherty, Stephen W. LE REFERENCE: U-011415-0 LE REFERENCE: U-011415-0 LE REFERENCE: U-011415-0 RENT APPLICATION NUMBER: US/08/913,430B RENT FILING DATE: 1997-12-09 RLIER APPLICATION NUMBER: PCT/AU96/00149 RLIER APPLICATION NUMBER: PN 1789 RLIER FILING DATE: 1996-03-15 RLIER FILING DATE: 1995-03-16 MSER OF SEQ ID NOS: 18 FTWARE: Patentin Ver. 2.0 - beta ID NO 1 ENGTH: 1782 YEE: DNA RGANISM: Mycoplasma hyopneumoniae -913-430-1	-08	) H3	_	g	SO	BN	Z	E	Z	Σ	8	8	FI	TI	₽	Ą	AP	E	Seq	9
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US-08-183-774-2; Sequence 2, Application

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RESULT

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믕 Q 밁 US-08-183-774-2 Best Query Match Matches TITLE OF INVENTION: Mycoplasma hyopneumou...,
TITLE OF INVENTION: Mycoplasma hyopneumou...,
TITLE OF INVENTION: Recombinant Antigenic Peptides and Diaguoca
TITLE OF INVENTION: Mycoplasmal Pneumoniae of Swine Using Same
TITLE OF INVENTION: Mycoplasmal Pneumoniae of Swine Using Same INFORMATION FOR SEQ ID NO: COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk ORIGINAL SOURCE: FILING DATE: 19-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, Norman F.
REGISTRATION NUMBER: 24,618 APPLICANT: MOLECULE TYPE: SEQUENCE CHARACTERISTICS: PRIOR APPLICATION DATA: CURRENT APPLICATION DATA: APPLICANT: APPLICANT: APPLICANT: APPLICANT: TELECOMMUNICATION INFORMATION: 643 STATE: Local Similarity 99.3 hes 1251; Conservative TYPE: nucleic acid STRANDEDNESS: single COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, 61 STRAIN: ORGANISM: TOPOLOGY: TELEX: 248855 OPAT UR TELEFAX: APPLICATION NUMBER: US 07/747,015 CLASSIFICATION: FILING DATE: APPLICATION NUMBER: ZIP: CITY: Arlington STREET: ADDRESSEE: TELEPHONE: REFERENCE/DOCKET NUMBER: LENGTH: 22202 Virginia 4 1260 base pairs 1755 Jefferson Davis Highway, Fourth Floor (703) 486-2347 TSUNA, Mika SETO, MATSUO, Kanako MITSUSE, Shizuo FUTO, Mycoplasma hyopneumoniae linear P.C. (703) 521-4500 DNA (genomic) Satoshi Yasuhiro 69.98; 99.38; 435 Mycoplasma hyopneumoniae, DNA Fragments for Primer, Recombinant Antigenic Peptides and Diagnostic Method US/08/183,774 4183-001-0 <u>,.</u> Score 1245.6; DB 7; Pred. No. 9.2e-215; 0; Mismatches 9; Version #1.25 Indels Length 1260; <u>,</u> Gaps 120 60 0;

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뮹 Š 뫄 Š 믕 S 밁 20 밁 В Ş Ş Q Š В ; OTHER INFORMATION: Clone US-60-141-136-611 US-60-141-136-611 SEQ ID NO 611 LENGTH: 448 Best Local Similarity
Matches 182; Conserv GENERAL INFORMATION: Sequence 611, Application US/60141136 Query Match APPLICANT: Abad, Mark S.
APPLICANT: La Rosa, Thomas J.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
TITLE OF INVENTION: Plants
FILE REFERENCE: 38-21(15709)A NUMBER OF SEQ ID NOS: 4228 CURRENT APPLICATION NUMBER: US/60/141,136
CURRENT FILING DATE: 1999-06-28 ORGANISM: Glycine TYPE: DNA FEATURE: 1201 1723 289 469 259 409 139 229 tattttttcattatttctactaaaatattatttgaatttgcattttccataatctaaaat 199 79 w aaaatgcttagaaaaaaattctt 551 ttatagtataatttgtttgtataattgaattaacttgatttgaaagggaacaaaatgaaa acaattttagtaagtccagtaattgttacaaaagctaatgttgataatcctgatgcctaa ccaaatatttcatttaaatatgataatcaaacatataaagtacaaggtaaaaatattaat 1722 ttttagtctaaattataaaattatcttgaattttatttgaatttttataatttagtacta 408 ACAATTTTAGTAAGTCCAGTAATTGTTACAAAAGCTAATGTTGATAATCCTGATGCCTAA 1260 CCANATATTTCATTTAAATATGATAATCAAACATATAAAGTGCAAGGTAAAAATATTAAT 1200 ATTGCAAAGAAAATAAAGCATCTAGATCAGAAGTCGAAAACGAACTAAAAGCAAAACTA Conservative max 56.3% ID: LIB3108-008-Q1-K1-H6 Score 97.4; DB 80; Pred. No. 1.7e-08; 0; Mismatches 141; Indels Length 448; <u>;</u> Gaps 1140 378 528 258 288 0;

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Best Local Similarity 46.6%;
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LENGTH: 17034
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APPLICANT: Kovalic, David K.
APPLICANT: Liu, Jingdong
TITLE OF INVENTION: Plant Genome Sequence And Uses Thereof
FILE REFERENCE: 38-21(51237)A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Oryza sativa FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OTHER INFORMATION: unsure at all n locations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
                                                                                                     560
                                                                                                                                                                                                                                                                                                     369 ttatcttgaattttatttgaatttttataatttagtactaaaaaatacaaatattttttc 428
                                                                                                                               549 cttgtattcatcagctatttatgcaacttcgcttgcatcaatta 592
                                                                                                                                                                                              489
                                                                                                                                                                                                                         429 ctattctaagaaaaattcattttttaaaaaaaattgatttttatagtataatttgtttgt 488
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tttttaagaattagtacattaaaaagtagaacaaaagttattaatgtaaacattagcgca 140
                                                                                                  ataattgaattaacttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaatt 548
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Pred. No. 8.7e-08;
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; LENGTH: 501
; TYPE: DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: 38-21(15737)A
CURRENT APPLICATION NUMBER: US/60/141,134
CURRENT FILING DATE: 1999-06-28
NUMBER OF SEQ ID NOS: 4434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Deikman, Jill
APPLICANT: Thompson, Michael D.
TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: Plants
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM: Glycine max
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                                                                425
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485
                              553 tattcatcagctattta 569
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                                                                            ttgaattaacttgatttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaattcttg
                                                                                                                                             totaagaaaaattoattitttaaaaaaaattgattittatagtataattitgittigtataa 492
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                                                              ttaaaaaaataatatatataaataaatcattttatataaatattttatatataaatttaatt 484
                                                                                                                             Conservative
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51.9%;
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                                                                                                                                                                                                                                                                           234;
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RESULT 6 US-60-145-485-8111/c

GENERAL INFORMATION:

Sequence 8111, Application US/60145485

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US-60-144-084-39263/c
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Sequence 39263, Application US/60144084
GENERAL INFORMATION:
APPLICANT: Abad, Mark S.
APPLICANT: Buehler, Robert E.
APPLICANT: Byrum, Joseph R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity 52.5
Matches 228; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 8111
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CURRENT FILING DATE: 1999-07-23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE OF INVENTION: NUCLEIC ACID MOLECULES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Fisher, Dane K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Miller, Philip W.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Deng, Molian
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Cheikh, Nordine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    OTHER INFORMATION: unsure at all n locations OTHER INFORMATION: Clone ID: LIB3150-100-P2-K1-F7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Zea mays
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FEATURE:
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                                                                                                                                                                               569 atgcaacttcgctt 582
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                                                                                                                                                         TCCCACCTTTATTT
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Pred. No. 1.3e-07;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches 232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 5.2%;
Best Local Similarity 49.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION NUMBER: US/60/144,084 CURRENT FILING DATE: 1999-07-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: NUCLEIC ACID MOLECULES TITLE OF INVENTION: PLANTS FILE REFERENCE: 38-21(15444)B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Shukla, Hridayabhiramjam APPLICANT: Thompson, Michael D.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Nelson, Donald E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Heck, Gregory R. APPLICANT: 1- Port
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORGANISM: Glycine max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
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                          atttttatagtataatttgtttgtataattgaattaacttgattt 509
                                                          aaattttacatttttttataacaatttttaaaaaattactctttaatttatagtattttt 344
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Pred. No. 1.5e-07;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AND OTHER MOLECULES ASSOCIATED WITH
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22
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US-08-998-416-288

Sequence 288, Application US/08998416 GENERAL INFORMATION:

APPLICANT:
APPLICANT:

Pohlmann,

Philippsen, Peter

CORRESPONDENCE ADDRESS:

CITY:

STREET:

Research Triangle Park

ADDRESSEE:

Novartis Corporation

STATE: North Carolina

USA

NUMBER OF SEQUENCES:

1152

TITLE OF INVENTION:

TITLE OF INVENTION: AND USES THEREOF

APPLICANT: APPLICANT: APPLICANT: APPLICANT: APPLICANT:

Rebischung, Corinne

GENOMIC DNA SEQUENCES OF ASHBYA GOSSYPII

Mohr, Christine Knechtle, Philipp Wendland, Jurgen Steiner, Sabine

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US-08-998-416-288
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Best Local Similarity 48.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                      MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: PF/5-30306/A/CGC1976
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8587
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE CHARACTERISTICS:
258 atttgaattttgcattttccataatctaaaattttacatttttttataacaatttttaaaa 317
                                                                                                199
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                                                                                                                                                                                                                               79 aatttttaagaattagtacattaaaaagtagaacaaaagttattaatgtaaacattagcg 138
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH: 837 base pairs
                                                                                       ataaatctttgtcagtatttatca-agtcggtattttttcattatttctactaaaatatt 257
                                                                                                                                                     caatcottaagaaaaaattaaaagttttatctattttttttaatcgaaatccaaccaggc 198
                                                                                                                                  CTATTATTATCATTATTAATAATTAATTATTATTTGATTATTAATACTTATTATAATTA 140
                                                                                                                                                                                                         AATTTATAAAGATTAATATAAACTTTTTTATTATAATATTTAAGTATTAAATTATTTAAA 80
                                                                                                                                                                                                                                                                                      Conservative
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Pred. No. 1.8e-07;
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Nov 23 14:57 us-08-913-430-1 mp

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Q 밁 Ş 밁 Ş 밁 Ş В Ş 밁 Ş 맑 Ş 믕 us-60-161-932-409 US-60-161-932-409 Sequence 409, Application US/60161932 GENERAL INFORMATION: SEQ ID NO 409 TITLE OF INVENTION: The Drosophila Genome, Primary Nucleic Acid Sequences TITLE OF INVENTION: Acid Sequences, Systems Containin the Nucleic Acid Sequences TITLE OF INVENTION: and Uses Thereof APPLICANT: Venter, J. Craig CURRENT APPLICATION NUMBER: US/60/161,932 FILE REFERENCE: CL000122 NUMBER OF SEQ ID NOS: CURRENT FILING DATE: 1999-10-28 SOFTWARE: FastSEQ for Windows Version 4.0 ORGANISM: Drosophila TYPE: DNA LENGTH: 25821 438 618 acagacagaatcaggttcaacttctgattctaaaccacaagccgagacgctaaaacataa 677 498 558 498 ttaacttgatttgaaagggaacaaaatgaaaaaatgcttagaaaaaaattcttgtattc 557 438 318 378 318 attactctttaatttatagtattttttttattttttagtctaaattataaaattatcttga 201 ATATGAATACTATTTAGTCTATGTTCAAATTTTAAATTAGTTATTAAAATATTATTAGAT 618 ACTTAAAAATACTTATAAAAGGAT 641 261 ATTATTATTTCTTTAATAAATTATTAAATAGATTA---TCAATAATTAATATATTATTT 317 agtaagtaatgattctattcgaat 701 atcagctatttatgcaacttcgcttgcatcaattattgcatttgttgcagcaggttgtgg 617 gaaaaattcattttttaaaaaaaattgatttttatagtataatttgtttgtataattgaa attttatttgaatttttataatttagtactaaaaaatacaaatatttttcctattctaa 437 497

ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: NAME: Meigs, J. Timothy

38,241

APPLICATION NUMBER: CH 0016/97 FILING DATE: 31-DEC-1996

PRIOR APPLICATION DATA:

CLASSIFICATION: 435

SOFTWARE: PatentIn Release #1.0, CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/998,411
FILING DATE: 24-DEC-1997

US/08/998,416

Version

1 #1.30

OPERATING SYSTEM: PC-DOS/MS-DOS COMPUTER: IBM PC compatible COMPUTER READABLE FORM:

MEDIUM TYPE: ZIP: 27709 COUNTRY:

Floppy disk

Ş В 맑 Ş Matches 208; Conservative Query Match Best Local Similarity 223 agtcggtattttttcattatttctactaaaatattatttgaatttgcattttccataatc 282 163 ttttatctattttttttaatcgaaatccaaccaggcataaatctttgtcagtatttatca 222 = = = = = 5.2%; 54.3%; Ξ 0; Score 91.8; DB 88; Pred. No. 4.2e-07; 0; Mismatches 172; DB 88; Indels Length 25821; μ Gaps 1;

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CURRENT FILING DATE: 1999-03-25
NUMBER OF SEQ ID NOS: 4221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Aspergillus Nidulans Genome Sequence And Uses Thereof FILE REFERENCE: 04983.0117/38-21(15484)A
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APPLICANT: Timberlake, William E.
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Local Similarity 49.3%;
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CURRENT TILING DATE: 1999-09-23
NUMBER OF SEQ ID NOS: 44345
SEQ ID NO 1293
LENGTH: 720 Query Match 5.1%; Best Local Similarity 51.9%; Matches 223; Conservative GENERAL INFORMATION: Sequence 12953, Application US/09404520 APPLICANT: Ghodssi, Azita APPLICANT: Hinkle, Gregory J. APPLICANT: Yu, Jaehyuk
TITLE OF INVENTION: Emericella nidulans Genome Sequence and Uses Thereof APPLICANT: Cao, Yongwei APPLICANT: Timberlake, William E. APPLICANT: McIninch, James OTHER INFORMATION: unsure at all n locations ORGANISM: Aspergillus nidulans FEATURE: TYPE: DNA 493 433 TATATATATCACCATATAATNAAATANTTTTTTTTT 396 566 tttatgcaacttcgcttgcatcaattattgcatttgtt 603 506 atttgaaagggaacaaaatgaaaaaaatgcttagaaaaaaattcttgtattcatcagcta 565 446 cattttttaaaaaaaattgattttatagtataatttgtttgtataattgaattaacttg 467 TTTCTTATTTTTATATTTATATTTCTTATATAAANNTATAAAAATTTTTTATTTTTTT 408 168 361 ttataaaattatcttgaattttatttgaatttttataatttagtactaaaaaatacaaat 420 287 241 atttctactaaaatattatttgaatttgcattttccataatctaaaattttacatttttt 300 181 121 61 tttcttcatttgcgccagaatttttaagaattagtacattaaaaagtagaacaaaagtta 120 atogaaatocaaccaggcataaatctttgtcagtatttatcaagtcggtattttttcatt **;** Score 91.4; DB 52; Pred. No. 2.3e-07; Mismatches 206; Length 720; Indels Gaps 109 228 288 240 -

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Best Local Similarity 50.6%;
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TITLE OF INVENTION: RESPONSIBLE FOR CHLOROQUINE IN HUMAN MALARIA
FILE REFERENCE: NIH64.001PR
CURRENT APPLICATION NUMBER: US/60/119,494
CURRENT FILING DATE: 1999-02-10
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ORGANISM: Plasmodium falciparum Dd2
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TTTTCTTTTCTATATTTTTCTTTTAATATATTCTTCAATATCACAATTAAATATATAT 1526:
                             tttttataatttagtactaaaaaatacaaatattttttcctattctaagaaaaattcatt 449
                                                                 TCTTTATTTTCTTTTCATGTTTTATTTTTTATATTTTAATTCAACTTAATTTGTATTTGT 1538
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Best Local Similarity 51.9%;
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CURRENT FILING DATE: 1999-03-25
NUMBER OF SEQ ID NOS: 4221
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APPLICANT: Timberlake, William E.
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APPLICANT: Ghodssi, Azita
APPLICANT: Hinkle, Gregory J.
APPLICANT: McTininch, James
APPLICANT: Timberlake, William E.
APPLICANT: Yu, Jaehyuk
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                                                                                    Sequence 46, Application US/60146055 GENERAL INFORMATION:
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SEQ ID NO 13069
LENGTH: 948
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                            APPLICANT: Bonazzi, Vivien
TITLE OF INVENTION: ISOLATED SECRETED PROTEINS, NUCLEIC ACID
TITLE OF INVENTION: MOLECULES ENCODING SECRETED PROTEINS, AND USES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/404,520 CURRENT FILING DATE: 1999-09-23
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                FILE REFERENCE: CL000067
CURRENT APPLICATION
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Local Similarity 53.0%;
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Pred. No. 3.1e-07;
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